WHAT IS CLAIMED IS:

1. A storage system comprising:

a channel unit that transfers data sent from an upper-level system and transfers data to said upper-level system;

a plurality of cache units which are connected to said channel unit and in which data sent from said channel unit is stored;

a control unit that is connected to said plurality of cache units, and transfers or receives data to or from said plurality of cache units;

a disk device in which data sent from said control unit is stored; and

a plurality of paths connecting said control unit to said plurality of cache units.

2. A storage system according to Claim 1, wherein said plurality of paths includes a first path that links a first cache unit included in said plurality of cache units to said control unit, and a second path that links a second cache unit included in said plurality of cache units to said control unit.

3. A storage system according to Claim 2, wherein said first path and said second path are independent of each other.

4. A storage system according to Claim 2, wherein said first path is dedicated to communication between said first cache unit and said control unit.

5. A storage system according to Claim 4, wherein said second path is dedicated to communication between said second cache unit and said control unit.

6. A storage system according to Claim 1, wherein among said plurality of paths, a path linking said control unit and a predetermined cache unit included in said plurality of cache units is not the same as a path linking said control unit and other cache unit included in said plurality of cache units.

7. A storage system according to Claim 2, wherein said first path directly links said first cache unit to said control unit.

8. A storage system according to Claim 7, wherein said second path directly links said second cache unit to said control unit.

9. A storage system according to Claim 2, wherein said first path links said first cache unit to said control unit on a point-to-point basis.

10. A storage system according to Claim 9, wherein said second path links said second cache unit to said control unit on a point-to-point basis.

11. A storage system according to Claim 1, wherein said disk device includes a plurality of disk drives, and said control unit is connected to said plurality of disk drives.

12. A storage system according to Claim 1, wherein said plurality of paths are signal lines linking said control unit and said plurality of cache units.

13. A storage system according to Claim 1, wherein said plurality of paths are used to read data, of which reading is requested by said upper-level system, from said disk device, and are used to communicate data, of which reading is requested by said upper-level system, from said control unit to one of said plurality of cache units.

14. A storage system according to Claim 1, wherein said plurality of paths are used to write data, of which writing is requested by said upper-level system, from one of said plurality of cache units to said disk device, and are used to communicate data, of which writing is requested by said upper-level system, from one of said plurality of cache units to said control unit.

15. A storage system according to Claim 1, wherein said plurality of paths includes a number of paths equal to a number of cache units included

in said plurality of cache units.